

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283PIRCNIM

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gggagtcgac ccacgcgtcc ggtagcctgg tgetctttct c atg gct tca ccc agc 56
Met Ala Ser Pro Ser 5
5

ctc ccg ggc agt gac tgc tcc caa atc att gat cac agt cat gtc ccc 104
Leu Pro Gly Ser Asp Cys Ser Gln Ile Ile Asp His Ser His Val Pro 20
10 15

gag ttt gag gtg gcc acc tgg atc aaa atc acc ctt att ctg gtg tac 152
Glu Phe Glu Val Ala Thr Trp Ile Lys Ile Thr Leu Ile Leu Val Tyr 35
25 30

ctg atc atc ttc gtg atg ggc ctt ctg ggg aac agc gcc acc att cgg 200
Leu Ile Ile Phe Val Met Gly Leu Leu Gly Asn Ser Ala Thr Ile Arg 40 45 50

gtc acc cag gtg ctg cag aag aaa gga tac ttg cag aag gag gtg aca 248
Val Thr Gln Val Leu Gln Lys Lys Gly Tyr Leu Gln Lys Glu Val Thr 55 60 65

gac cac atg gtg agt ttg gct tgc tcg gac atc ttg gtg ttc ctc atc 296
Asp His Met Val Ser Leu Ala Cys Ser Asp Ile Leu Val Phe Leu Ile 70 75 80 85

ggc atg ccc atg gag ttc tac agc atc atc tgg aat ccc ctg acc acg 344
Gly Met Pro Met Glu Phe Tyr Ser Ile Ile Trp Asn Pro Leu Thr Thr 90 95 100

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FIG. 1A

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392	tcc agc tac acc ctg tcc tgc aag ctg cac act ttc ctg ttc gag gcc	110	115
	Ser Ser Tyr Thr Leu Ser Cys Lys Leu His Thr Phe Leu Phe Glu Ala		
440	tgc agc tac gct acg ctg ctg cac ctg aca ctc agc ttt gag cgc	120	125
	Cys Ser Tyr Ala Thr Leu Leu His Val Leu Thr Leu Ser Phe Glu Arg		
488	tac atc gcc gcc atc tgt cac ccc ttc agg tac aag gct gtg tgc gga cct	130	145
	Tyr Ile Ala Ile Cys His Pro Phe Arg Tyr Lys Ala Val Ser Gly Pro		
536	tgc cag gtg aag ctg ctg att ggc ttc gtc tgg gtc acc tcc gcc ctg	150	160
	Cys Gln Val Lys Leu Leu Ile Gly Phe Val Trp Val Thr Ser Ala Leu		
584	gtg gca ctg ccc ttg ctg ttt gcc atg ggt act gag ctg gtg	170	180
	Val Ala Leu Pro Leu Leu Phe Ala Met Gly Thr Glu Tyr Pro Leu Val		
632	aac gtg ccc agc cac cgg ggt ctc act tgc aac cgc tcc agc acc cgc	185	195
	Asn Val Pro Ser His Arg Gly Leu Thr Cys Asn Arg Ser Thr Arg		
680	cac cac gag cag ccc gag acc tcc aat atg tcc atc tgt acc aac ctc	200	210
	His His Glu Gln Pro Glu Thr Ser Asn Met Ser Ile Cys Thr Asn Leu		

FIG. 1B

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tcc agc cgc tgg acc gtg ttc cag tcc agc atc ttc ggc gcc ttc gtg	728
Ser Ser Arg Thr Val Phe Phe Gln Ser Ser Ile Phe Phe Ala Phe Val	
215 220 225	
gtc tac ctc gtg gtc ctg ctc tcc gta gcc ttc atg tgc tgg aac atg	776
Val Tyr Leu Val Val Leu Leu Ser Val Ala Phe Met Cys Trp Asn Met	
230 235 240 245	
atg cag gtg ctc atg aaa agc cag aag ggc tgc ctg ggc ggc acg	824
Met Gln Val Leu Met Lys Ser Ser Gln Lys Gly Ser Leu Ala Gly Gly Thr	
250 255 260	
cgg cct ccg cag ctg agg aag tcc gag agc gaa gag agc acc gcc	872
Arg Pro Pro Gln Leu Arg Lys Ser Gln Ser Glu Ser Arg Thr Ala	
265 270 275	
agg agg cag acc atc atc ttc ctg agg ctg att gtt gtg aca ttg gcc	920
Arg Arg Gln Thr Ile Ile Phe Leu Arg Leu Ile Val Val Thr Leu Ala	
280 285 290	
gta tgc tgg atg ccc aac cag att cgg agg atc atg gct gcg gcc aaa	968
Val Cys Trp Met Pro Asn Gln Ile Arg Arg Ile Met Ala Ala Lys	
295 300 305	
ccc aag cac gac tgg acg agg tcc tac ttc cgg gcg tac atg atc ctc	1016
Pro Lys His Asp Trp Thr Arg Ser Tyr Phe Arg Ala Tyr Met Ile Leu	
310 315 320 325	

FIG. 1C

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ctc ccc ttc tcg gag cag ttt ttc tac ctc agc tcg gtc atc aac ccg	1064
Leu Pro Phe Ser Thr Phe Phe Tyr Leu Ser Ser Val Ile Asn Pro	330 335 340
ctc ctg tac acg gtg tcc tcg cag cag ttt cgg cgg gtg ttc gtg cag	1112
Leu Leu Tyr Thr Val Ser Ser Gln Gln Phe Arg Arg Val Phe Val Gln	345 350 355
gtg ctg tgc tgc cgc ctg tcg ctg cag cag cac gcc aac cac gag aag cgc	1160
Val Leu Cys Cys Arg Leu Ser Ser Leu Gln His Ala Asn His Glu Lys Arg	360 365 370
ctg cgc gta cat gcg cac tcc acc acc gac agc gcc cgc ttt gtg cag	1208
Leu Arg Val His Ala His Ser Thr Thr Asp Ser Ala Arg Phe Val Gln	375 380 385
cgc ccg ttg ctg ttc gcg tcc cgg cgc cag tcc tct gca agg aga act	1256
Arg Pro Leu Leu Phe Ala Ser Arg Arg Gln Ser Ser Ala Arg Arg Thr	390 395 400 405
gag aag att ttc tta agc act ttt cag agc gag gcc gag ccc cag tct	1304
Glu Lys Ile Phe Leu Ser Thr Phe Gln Ser Ser Glu Ala Glu Pro Gln Ser	410 415 420
aag tcc cag tca ttg agt ctc gag tca cta gag ccc aac tca ggc gcg	1352
Lys Ser Gln Ser Leu Ser Leu Glu Ser Ser Leu Glu Pro Asn Ser Gly Ala	425 430 435

FIG. 1D

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aaa cca gcc aat tct gct gca gag aat ggt ttt cag gag cat gaa gtt      1400
Lys Pro Ala Asn Ser Ala Ala Glu Asn Gly Phe Gln Glu His Glu Val
                                440      450

tgaatgtcaa gcgagggagc cttgagtggg aactggccct ccagccctaa gaaaacgtca      1460
ctctcactct gcagtctcaa actctgcccc catcagggat ggaatggaca ctggaggctt      1520
tacaaaaggc agatgccccac ctcagtgact tctaaggact gactctgcca gcctggcctt      1580
gactccggtt acacagacat ggggggtgaac ttctactcca cctccttctt tcaagtaaat      1640
actgaaaaatt cagtcaagct gaatttattc agaatgcttt accgagctct ttcatatttt      1700
gcacaggaac aaaagagaac acggactccc gctccctacc cagaataaaa ggacacccag      1760
aagaaactca ctcagggagg tgggggggttg ggggcgaggg ctggaagaac aatgcaggag      1820
ggggtggcat ctcttcagc ttcagcagtg tgccgacaag agggctaatt tgaggaaacag      1880
gatggtggtg cggagccctg gcctgagggc cgaggcagaa cttccccctt tcttgggcct      1940
tggcccgtta caaagagggg tgttgcagca gctgatgcaa actgagttaa gtttccctgg      2000
ggagcagaag gactgggtacc cggcagaggc gatgagacag gccgctgatg atgcacagga      2060
cttgcggtac atgatccccg cactttgctg catcacttct ttctgacaca tgtcttgaac      2120

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FIG. 1E

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gttcaccgtg caattcaca tgaactcggg ggaggagcag tcgttggtta gctggaattc 2180
ttcacactgg tagcactgga tttgcagcgc aaagcccttg ggactccccg ggatgccccg 2240
gtgctatctt cgccttcctt cccgagcctt gcagcagggtg gtgcggggaga ccgcttgccc 2300
gccggagtgc gttggtgccc ccgcccccaa tccgcacatt cccatcccct ttccgcacat 2360
ccttagggag catccatttc cgtggaaatc gcctcctaag cttagctcc tcttcaccct 2420
tttctcccc gccacttct gggggcagct ctctcacgcc gggacgcaga tcatttaatt 2480
ctgcacgcgc tcngcagagc tggctctgtaa aggggcttaa atgacttt 2528

FIG. 1F

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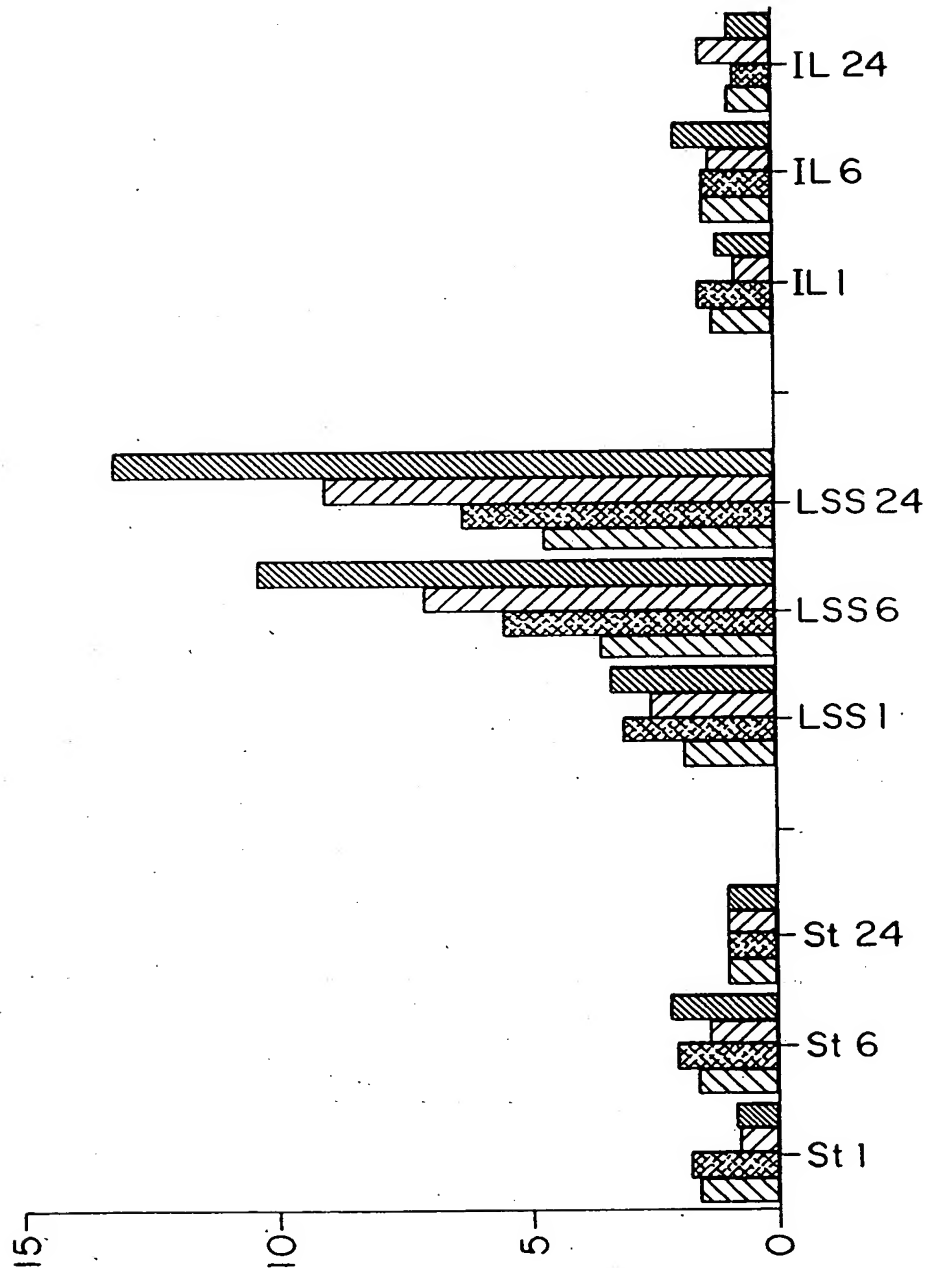


FIG. 2

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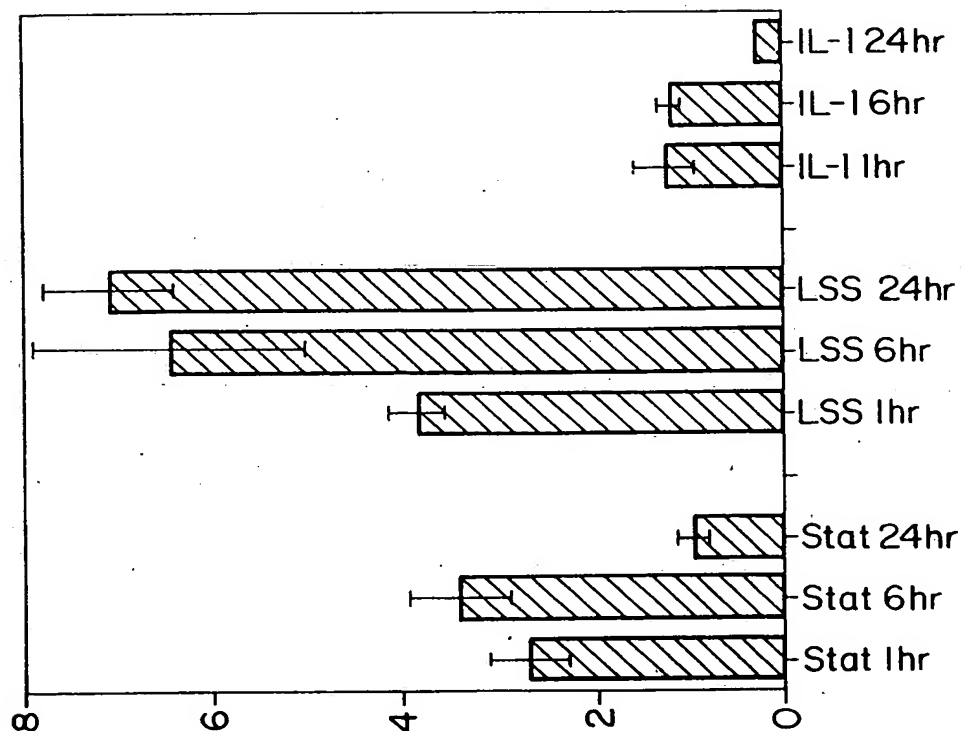
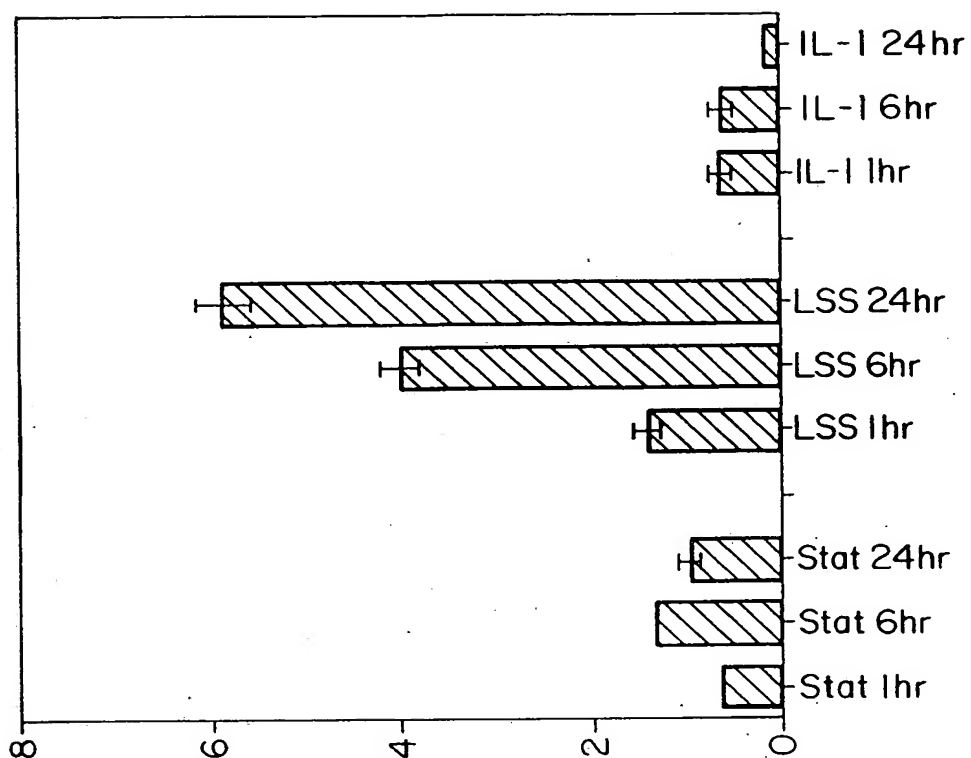


FIG. 3

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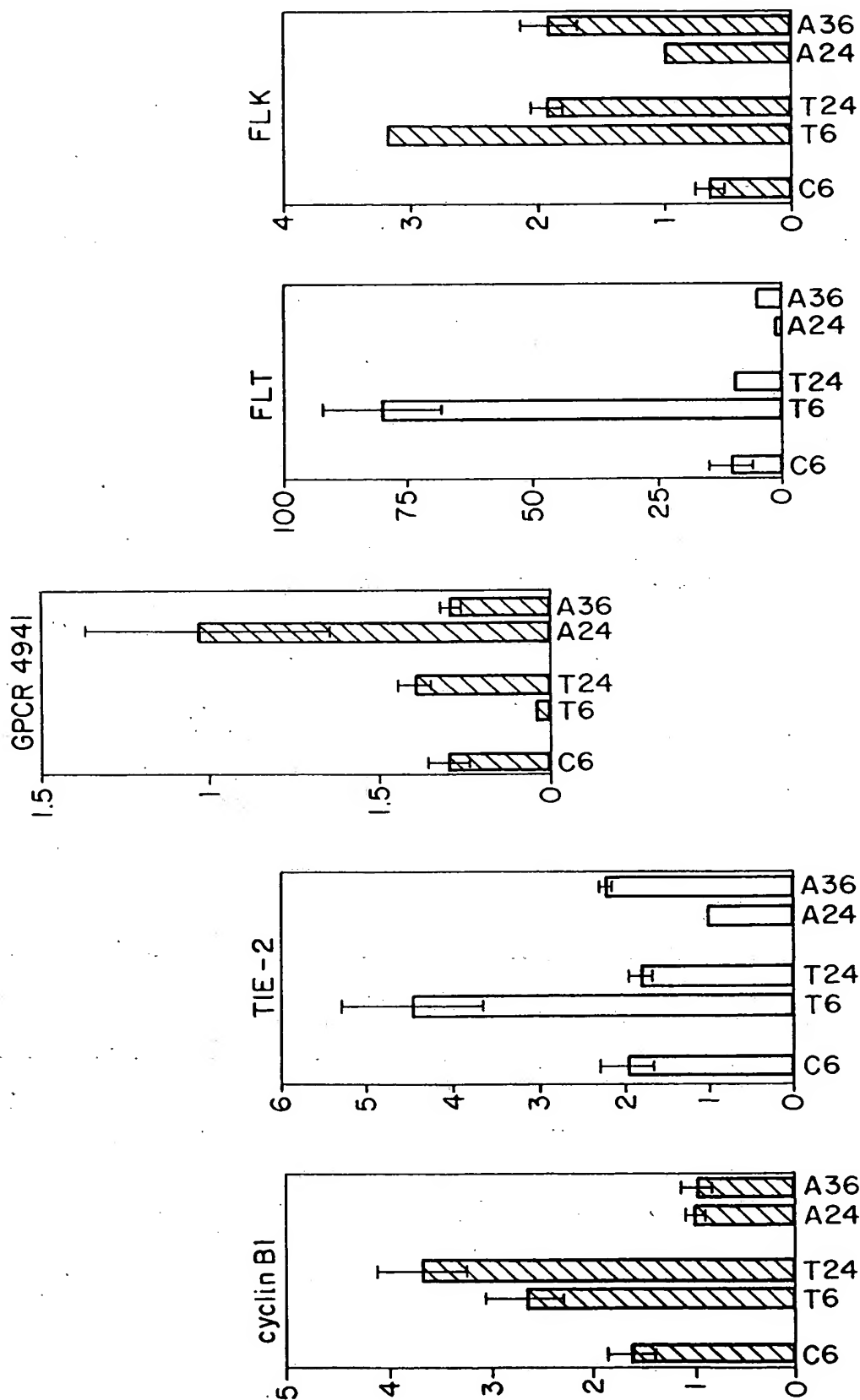


FIG. 4

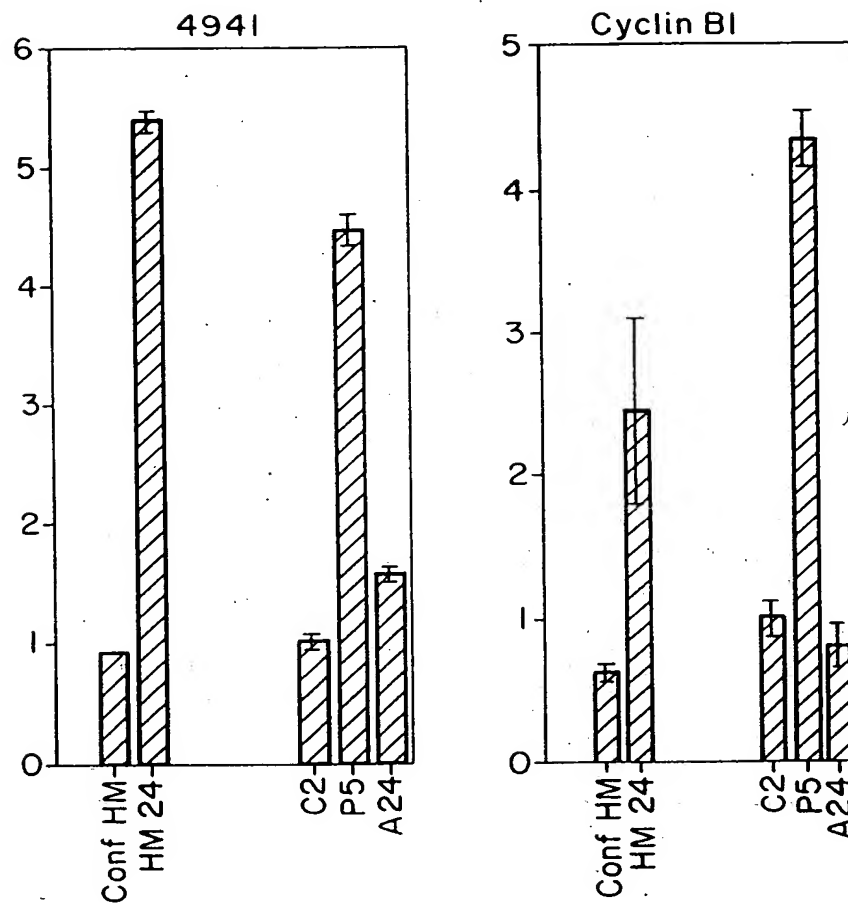
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*FIG. 5*

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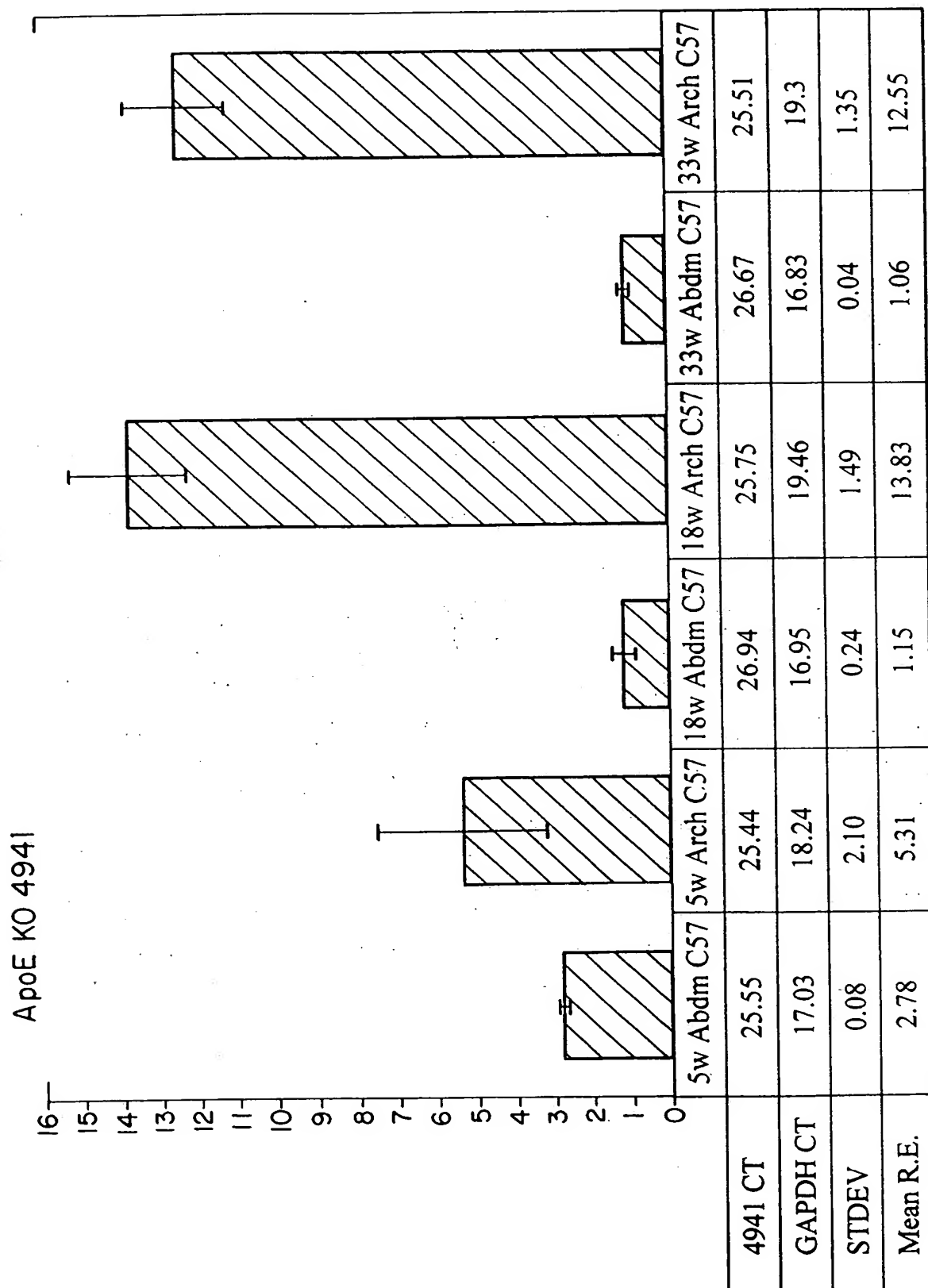


FIG. 6

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FIG. 7A

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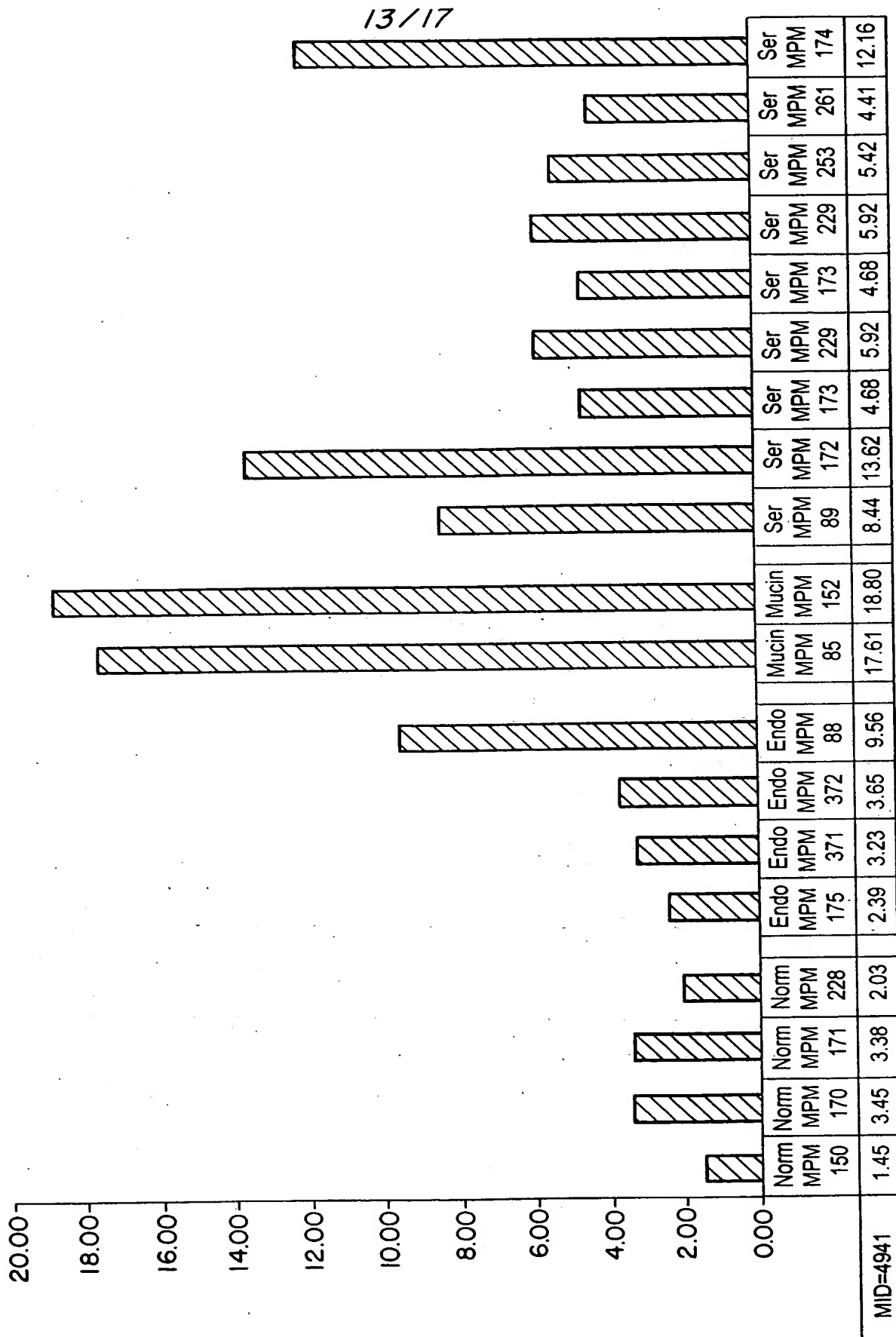


FIG. 7B

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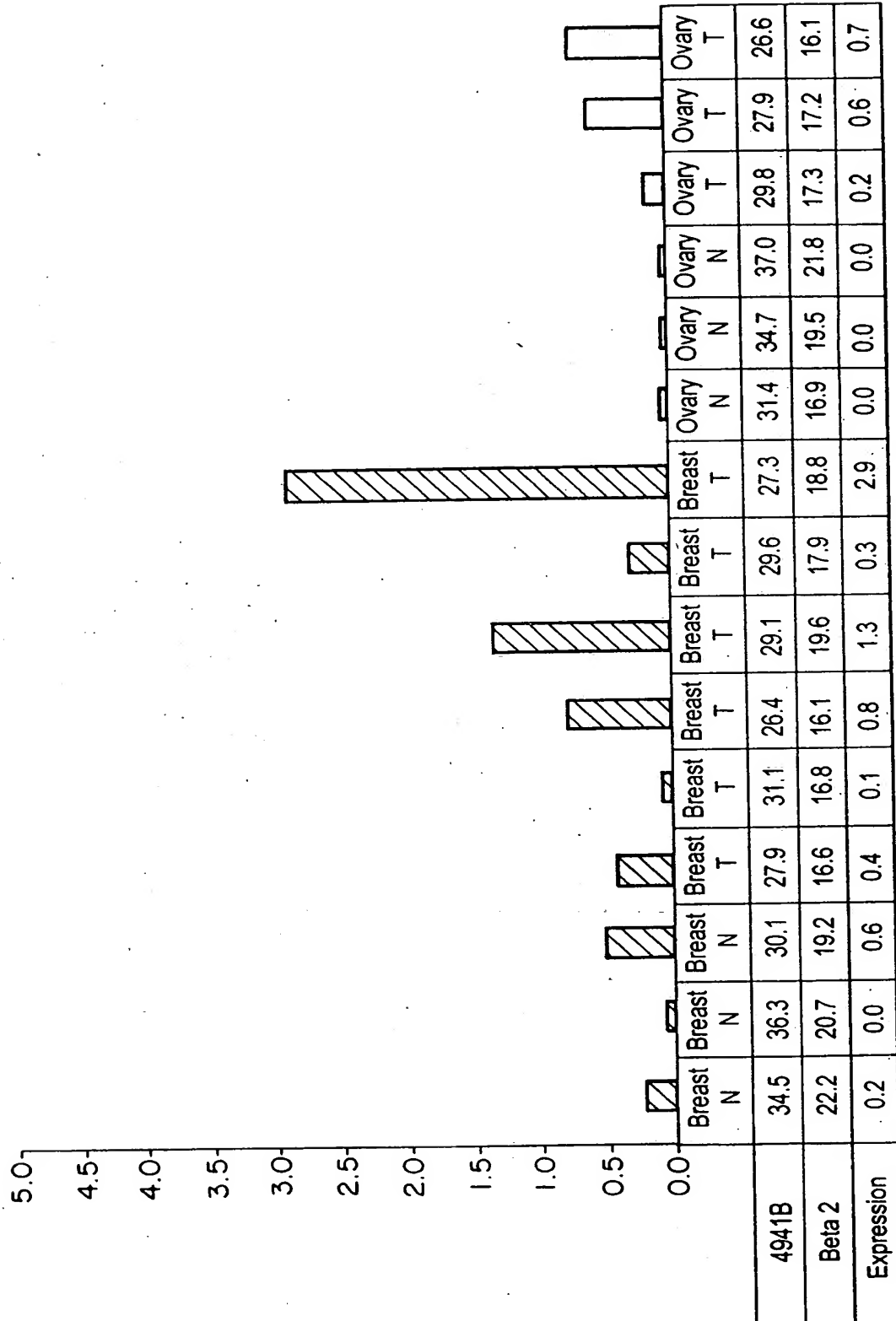


FIG. 8A

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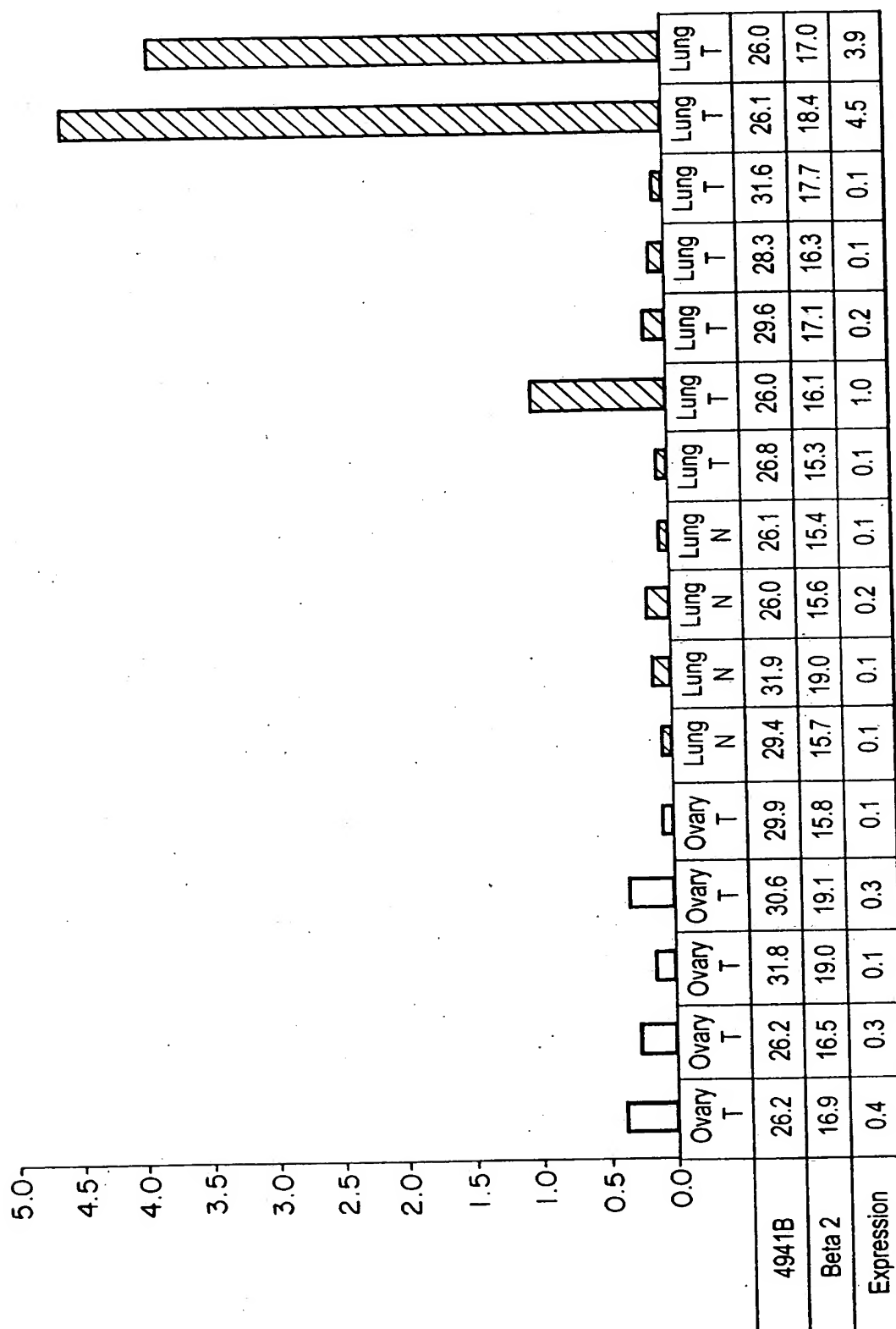


FIG. 8B

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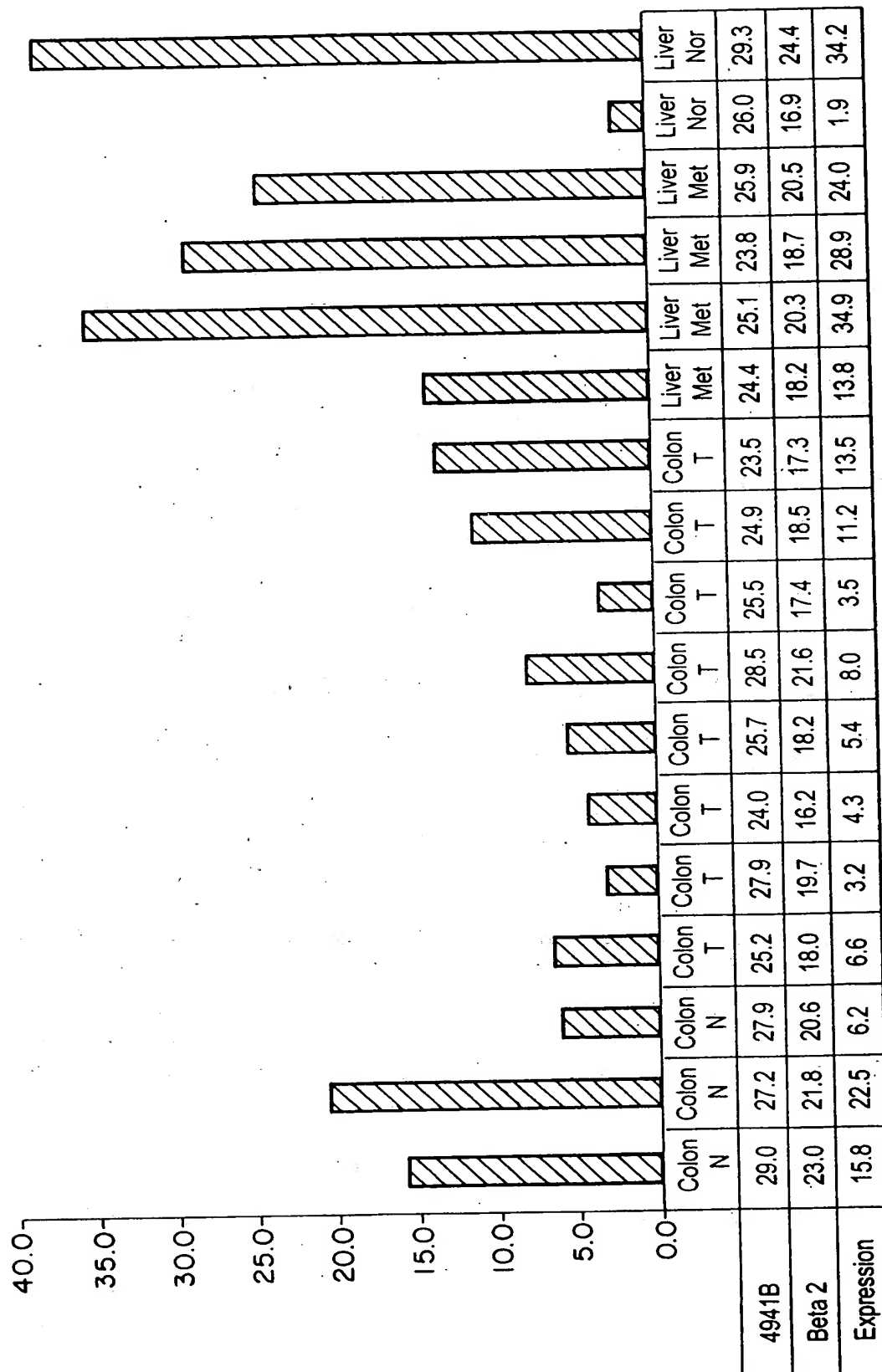


FIG. 8C

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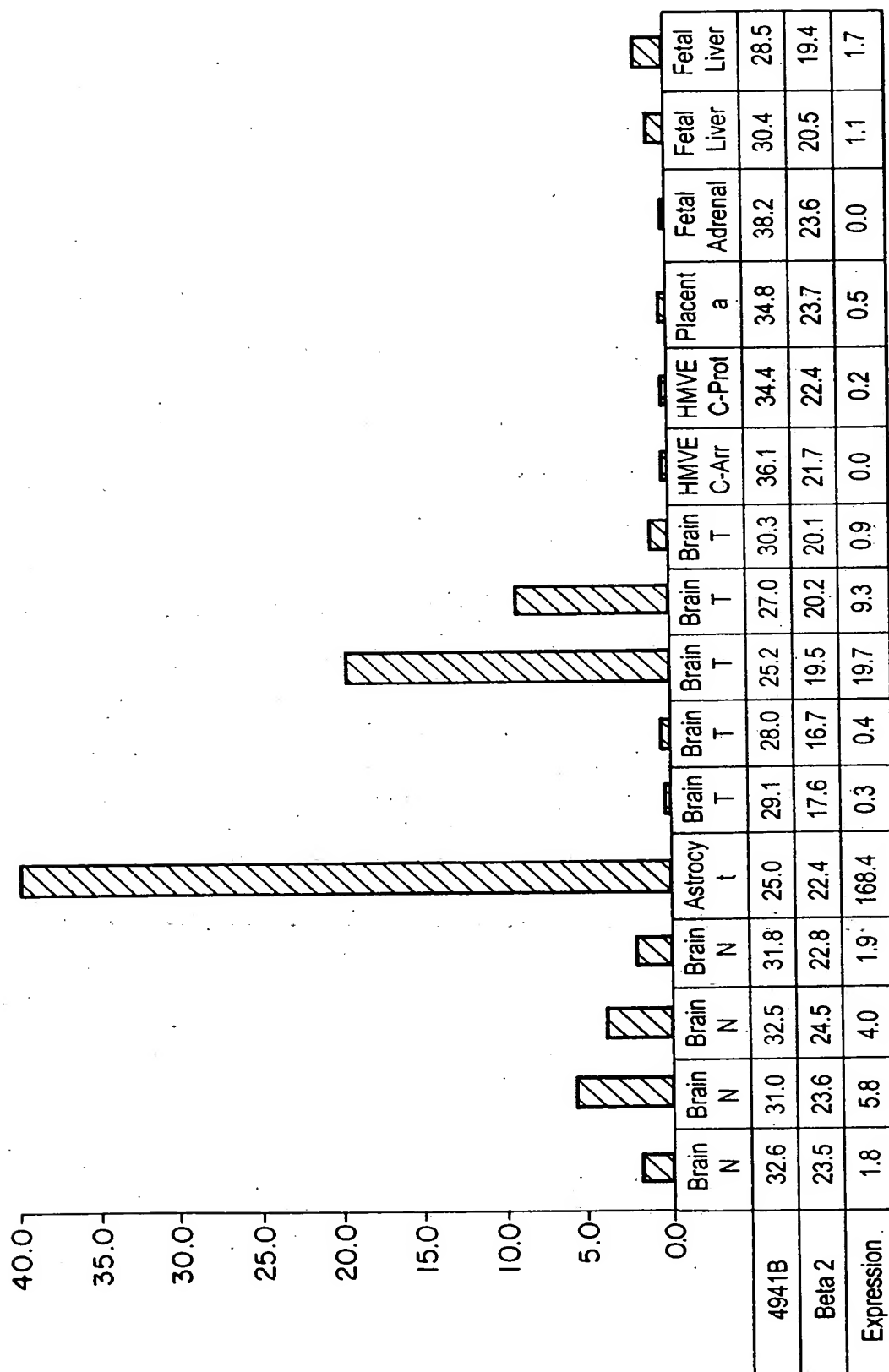


FIG. 8D